

cont'd  
B6

1 31. The printing system of claim 32, wherein:  
2 the at least one inkdrop-placing module comprises  
3 at least two modules for placing ink; and  
4 the at least one sensor comprises:  
5  
6 a sensor for measuring color properties of the  
7 previously received ink, and  
8  
9 a sensor for use in determining, from patterns  
10 of the previously received ink, condition  
11 or relative positioning, or both, of the  
12 inkdrop-placing modules.

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B7

1 35. The printing system of claim 32, wherein:  
2 the door is a shutter.

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IN THE SPECIFICATION:

On page 10, in the first paragraph on the page (lines 1 through 3), please enter the changes shown below. Words being added are in shaded type, like this, and those being deleted are in strikeout type, ~~like this~~:

a           Thus pseudodensitometry and does not at all closely  
b           approach colorimetry. Problems with this method include  
c           these:

Here is a clean copy of the same paragraph:

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88 a           Thus pseudodensitometry does not at all closely  
b           approach colorimetry. Problems with this method include  
c           these:

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On page 34 in the paragraph running from lines 10 through  
15, please enter these changes:

a           Central Key to achieving a sufficiently lightweight  
b           and compact colorimeter to avoid a separate carriage is  
c           minimizing the use of relatively heavy solenoid actua-  
d           tors, stepper motors, and the like. Most commercially  
e           available colorimeter models occupy some fifteen to  
f           thirty cubic centimeters and weigh over a hundred grams.

Here is a clean copy of the same paragraph:

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89 a           Central to achieving a sufficiently lightweight and  
b           compact colorimeter to avoid a separate carriage is  
c           minimizing the use of relatively heavy solenoid actua-  
d           tors, stepper motors, and the like. Most commercially  
e           available colorimeter models occupy some fifteen to  
f           thirty cubic centimeters and weigh over a hundred grams.

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On page 68 (the "Abstract" page), please revise the abstract as shown here:

a           In one form of the invention, one sensor determines  
b mutual alignment of pens; a second sensor measures color  
c of dots formed on a print medium by the pens. Another  
d form has two carriages — one moving pens to mark on a  
e medium and the second used to refine quality of images  
f produced. In a third form, a sensor measures color of  
g test patterns by one or more pens; a hood — generally  
h around the sensor laterally relative to a sensing direc-  
i tion — excludes ambient light from the sensor during  
j measuring; a mechanism advances the hood along the sens-  
k ing direction toward the patterns. In a fourth form, a  
l pen ejects multiple liquid-ink drops onto a medium, and  
m a sensor infrequently measures color of resulting dots  
n — only when the pen is not forming images. In this  
o ~~form a door protects sensor optics from coating by ink~~  
p ~~aerosol when the sensor is not in use, including when-~~  
q ~~ever the pen is writing; a mechanism opens and closes~~  
r ~~the door before and after sensor use. In a fifth form,~~  
s ~~a mechanism advances a color property measuring sensor~~  
t ~~into contact with a medium bearing test patterns. In a~~  
u ~~sixth form, a flashlamp in the printer illuminates test~~  
v ~~patterns for measurement — at an intensity high enough~~  
w ~~to make ambient light essentially insignificant, and~~  
x ~~preferably for a time short enough to make lamp energy~~  
y ~~usage and heating negligible. In a seventh form, a~~  
z ~~moving carriage positions a sensor over test patterns~~  
aa ~~and at least one colorimetric reference target is ex-~~  
bb ~~posed to the sensor. The forms are best used together~~  
cc ~~and are subject to many important preferences~~ In ad-  
dd ~~dition to these four forms of the invention, three oth-~~  
ee ~~ers are detailed in the text.~~

Here is a clean copy of the abstract as thus amended:

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1           In one form of the invention, one sensor determines  
2       mutual alignment of pens; a second sensor measures color  
3       of dots formed on a print medium by the pens. Another  
4       form has two carriages — one moving pens to mark on a  
5       medium and the second used to refine quality of images  
6       produced. In a third form, a sensor measures color of  
7       test patterns by one or more pens; a hood — generally  
8       around the sensor laterally relative to a sensing direc-  
9       tion — excludes ambient light from the sensor during  
10      measuring; a mechanism advances the hood along the sens-  
11      ing direction toward the patterns. In a fourth form, a  
12      pen ejects multiple liquid-ink drops onto a medium, and  
13      a sensor infrequently measures color of resulting dots  
14      — only when the pen is not forming images. In addition  
15      to these four forms of the invention, three others are  
16      detailed in the text.

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#### REMARKS

As to the amendment filed May 17, Applicants wish to apologize to the Examiner for a misstatement — which was to the effect that Beauchamp was not a proper Section 103 reference. Applicants respectfully withdraw that statement.

Applicants again thank Examiner Huffman for having indicated that claims 32 through 34 would be allowable if suitably amended. It is believed that those claims are now in condition for allowance.